

Land Remote Sensing Program Science Fair

U.S. Geological Survey Headquarters Reston Virginia

April 12-13, 2005

April 11, 2005 Invitees travel to Reston

April 12, 2005

8:45 9:00 9:30 9:50 10:10	Welcoming Remarks/Keynotes/Invited Speakers (includes time for questions) J. Feuquay, Program Coordinator, Land Remote Sensing, Welcome/Logistics Chip Groat, Director, USGS, – Keynote Barb Ryan, Associate Director, Geography Discipline, –Suggested Title: Geography's role in Land Remote Sensing Carol Aten, Chief, Administrative Policy and Services J. Feuquay – The LRS Program and Mission	
10:25	Break	
11:00 11:20 11:40	Invited Speakers from other programs. Ann Frandorf, Chief Scientist, Geospatial Information Office Matt Larsen, Chief Scientist, Water Discipline Robert Szaro, Chief Scientist, Biology Discipline Linda Gundersen, Chief Scientist, Geology Discipline 12:00 Lamek	
12:00-13:00 Lunch		
13:20	Invited Speakers from Geography Program Doug Muchoney, Program Coordinator, Geographic Analysis and Monitoring Carl Shapiro, Program Coordinator, Science Impacts Overview of USGS LRS Research and Application Element in the FY05 LRS Program - Carl Markon	
	Selected LRS Based Presentations InSAR Monitoring of Earthquake, Volcano, and Landslide Processes - Zhong Lu A Dynamic Approach to Mapping and Predicting Urban Growth Impacts by Modeling Imperviousness - George Xian Landscapes of Diseases - S. Guptil	

15:15 **Break**

- 15:30 Hydrologic Derivatives from SRTM and LIDAR KrisVerdin
- 16:00 Phenological Trends Brad Reed
- 16:30 Lidar and Multispectral Imagery Exploitation in Support of the Mancos Shale Landscapes Project J. Kosovich
- 17:00 NCAP- Results from Internal Review D. Kirtland
- 17:30 Closing Remarks/Task for Tomorrow J. Feuquay

18:00 -20:00 PM Poster Session (Wine and Cheese) 21:00 – 22:00 Question and Answer for Poster Authors

Posters to be set up at Noon during Lunch and between 17:30 and 18:00 and should be no larger than 3 X 5 feet

Natural and Anthropogenic Hazards – Preparation, Response, and Mitigation Development of RADAR Remote Sensing Technologies. Zhong Lu InSAR Studies of Coastal Regions. Zhong Lu Deformation and Stress. Tim Masterlark Drought Monitoring with Remote Sensing Data. Jess Brown Wildland Fire Data Ordering System. E. Lile Homeland Security. S. Durst
Sensor Technology and Characterization Research
Determining Soil Water Content from Remotely Sensed Data E.Lynn Usery
GPS-aided Inertial Technology and Navigation-based Photogrammetry for Near Real- time Hazards Mapping the Southern San Andreas FaultSanchez/Hudnut
Sharpening and restoration of ALI data to improve spatial resolution of unmixed spectral data
LIDAR analysis of Mt. St. Helens
Federal Agency Digital Data CharacterizationsGreg Stensaas
Characterization and Validation of Ortho-photo imagery
Rapid Response, Low Cost Airborne Digital Imaging System
Land Characterization
Agricultural Landscape Characterization using Landsat 7 SLC-off ImagerySusan Maxwell
Regional characterization of woody vegetation structural and biophysical parameters
through integration of 3-D scene model, multiangle and multispectral remotely sensed data and in-situ measurements
A Dynamic Approach to Mapping and Predicting Urban Growth Impacts by Modeling Imperviousness Variations
Development of multi-sensor applications for landscape and regional quantification of climate change impacts and carbon dynamics

Biodiversity Characterization and Dynamics of North and Central America using MODIS 500m Data, Geo-spatial Technology, and Climate Modeling
Other LRS Related Topics
Landsat New Products
Land Remote Sensing Archive and Dissemination
Historical Applications of Digitized Aerial Photography
Commercial Remote Sensing – What it can do for youJenn Willems
CRSDCMike Duncan
America View/ GloViz
Low Cost System Architecture for Archiving Remotely Sensed DataTom Kalvelage
NCAP Science Support
Emergency ResponseBrenda Jones

April 13, 2005

Welcome/Instructions/Breakouts

- 8:30 C. Markon Schedule for the day
- 8:40 B. Quirk Review of previous day
- 8:55 J. Feuquay Charges of the Day: Breakouts (pre-defined based on attendee list)
- 9:00 Breakout Session 1 (four different groups); Questions to Discuss:
 - 1) Do the current activities of the LRS program address the important current issues?
 - a. What is LRS not doing that it should be doing?
 - b. What is LRS doing that it should not be doing?
 - 2) What is the best way to coordinate the current activities within the LRS program?

10:20 Break

- 10:40 Group Reports: Session 1
- 13:30 Round-table discussion

12:00 Lunch

- 13:00 Breakout Session 2 (four different groups); Questions to Discuss:
 - 1) What are the needs of other disciplines/agencies
 - 2) How can the LRS program best serve the other disciplines/agencies?
 - 3) What are the major topical areas that LRS research should focus on in the future?
- 13:45 Group Reports: Session 2
- 14:15 Round-table discussion

14:30 Break

- 15:10 Highlights of Group Reports
- 15:30 J. Feuquay: summary words of wisdom and future direction.
- 16:00 Adjourn